Stantec Analytical Validation Checklist

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Project Name: Amtrak North Yard	Project Number: 213402048
Validator: Jim Tezak	Laboratory: Eurofins/Lancaster Laboratory
Date Validated: 12/12/2019	Laboratory Project Number: 1595161
Sample Start-End Date: 9/22/2015	Laboratory Report Date: 9/30/2015

Report No. ATA37

Parameters Validated:

Polychlorinated biphenyls (PCBs) by EPA SW-846 3580A/8082A - oil matrix

Samples Validated (all Grab Soil):

MH-14 Area-Oil, LLI # 8059389

## **VALIDATION CRITERIA CHECK**

Validation Flags Applicable to this Review:

- **U** The analyte was analyzed for, but not detected above the reported sample quantitation limit.
- **J** The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- **J+** Result is estimated quantity but the result may be biased high.
- **J-** Result is estimated quantity but the result may be biased low.
- **UJ** The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- **NJ** The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
- **B** The analyte was detected in the method, field, and/or trip blank.
- **R** The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

1.	Were all the analyses requested for the samples	Yes	No
	submitted with each COC completed by the lab?	X	
Cor	nments:		
2.	Did the laboratory identify any non-conformances	Yes	No
	related to the analytical result?		X
Cor	mments:		
3.	Were sample Chain-of-Custody forms complete?	Yes	No
		X	
Cor	mments:		
Sar	nples were listed on chain-of-custody (COC) # 194670.		
4.	Were samples received in good condition and at the	Yes	No
	appropriate temperature?	X	

## Comments:

The laboratory noted on the Sample Administration Receipt Documentation Log that the shipping container was not sealed and there was no custody seal present when the samples were received.

5. Were sample holding times met?		Yes	No
		X	
Comments:			
6. Were correct concentration units reported?		Yes X	No
Comments:			
Results were reported in units of microgram per kilogram (ug/kg	g).		
7. Were detections found in laboratory blank samples?		Yes	No <b>X</b>
Comments:			
8. Were detections found in field blank, equipment rinse blank, and/or trip blank samples?	NA <b>X</b>	Yes	No
Comments:			
No field blanks were submitted in this sample delivery group (S	DG).		
Were instrument calibrations within method criteria?	NA <b>X</b>	Yes	No
Comments:			
Not Applicable, Level 2 data validation.			
10. Were surrogate recoveries within control limits?		Yes <b>X</b>	No
Comments:			
11. Were laboratory control sample(s) (LCS/LCSD) sample recoveries within control limits?		Yes <b>X</b>	No
Comments:			
12. Were matrix spike (MS/MSD) recoveries within control limits?	NA <b>X</b>	Yes	No
Comments:			
Not applicable; site-specific MS/MSD not analyzed for this SDG	6.		
13. Were RPDs within control limits?		Yes	No
		X	
Comments:			
Site-specific MS/MSD not analyzed.		AUL 00/L 00D	
The laboratory reported LCS/LCSD results to assess accuracy and RPDs were within control limits.	and precision.	All LCS/LCSD	recoveries
14. Were dilutions required on any samples?		Yes <b>X</b>	No
Comments:			
The sample was diluted 20X prior to analysis. Sample reporting data were qualified.	g limits were a	djusted accordin	igly. No

15. Were Te	ntatively Identified Compounds (T	TIC) present?	NA <b>X</b>	Yes	No
Comments: TI	C not requested.				
16. Were org	anic system performance criteria	met?	NA <b>X</b>	Yes	No
Comments: Not Applicable	, Level II data validation.				
17. Were GC	:/MS internal standards within me	ethod criteria?	NA <b>X</b>	Yes	No
Comments:					
Not Applicable	, Level II data validation.				
18. Were inc	rganic system performance criter	ia met?	NA <b>X</b>	Yes	No
Comments:					
	nd field duplicates collected? If so 0) of the results.	o, discuss the		Yes	No <b>X</b>
Duplicate Sar	nple ID Prim	ary Sample No.			
Comments: No PCB Arock	ors were detected in either sampl	e.			
	east 10 percent of the hard copy Data Deliverable Results?	results compared	to Yes	No <b>X</b>	Initials JET
database, so t	a verification was performed, ele he comparison of hard copy resu o the database, a review of hard o	Its to EDD results	could not be cor	mpleted. After	the data
21. Other?				Yes	No <b>X</b>
	ere validated according to the US able as qualified. No data have b		and DNREC SO	PCAP. All dat	a are
PRECIS	ON, ACCURACY, METHOD CO	MPLIANCE AND	COMPLETENE	SS ASSESSN	IENT
Precision:	Acceptable X	Un	acceptable	Initials JET	
Comments:	•				
Sensitivity:	Acceptable X	Un	acceptable	Initials JET	
Comments:	1	1			

Accuracy:	Acceptable X	Unacceptable	Initials JET	
Comments:				
Representativeness:	Acceptable X	Unacceptable	Initials JET	
Comments:				
Method Compliance:	Acceptable X	Unacceptable	Initials JET	
Comments:				
Completeness:	Acceptable X	Unacceptable	Initials JET	
Comments:				